

Fig. 1 (prior art)

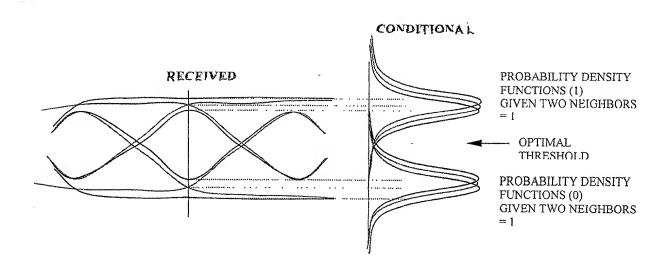
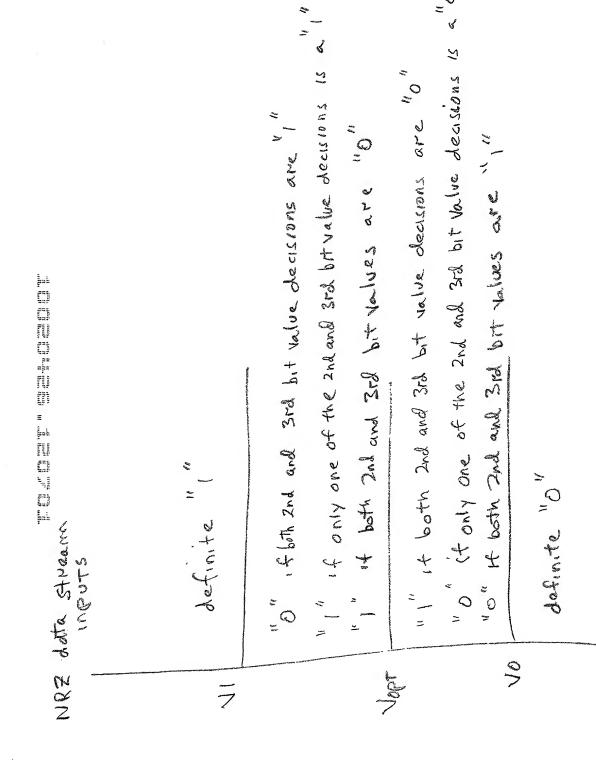
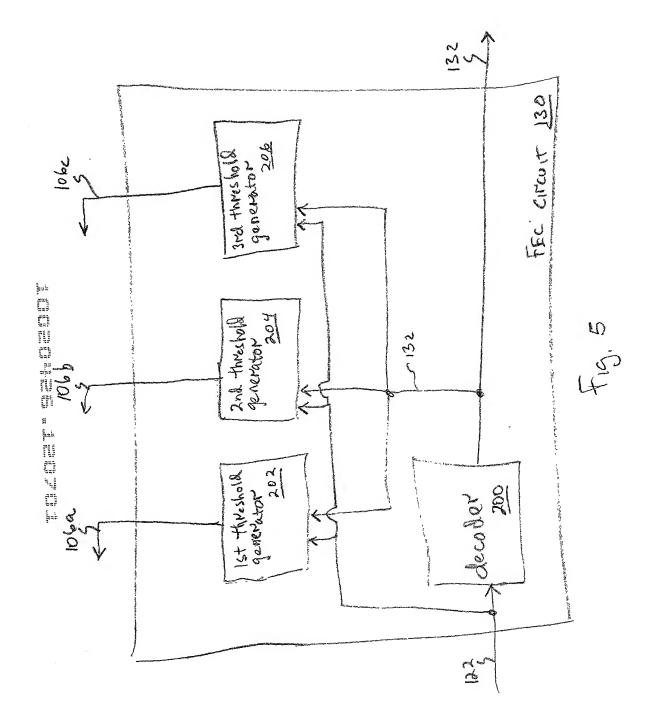


Fig. 2 (prior art)





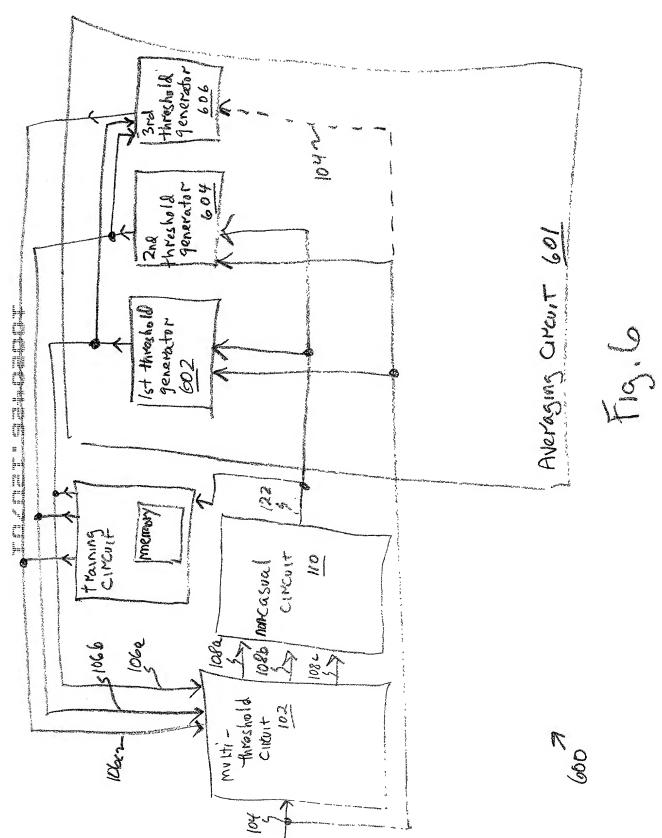
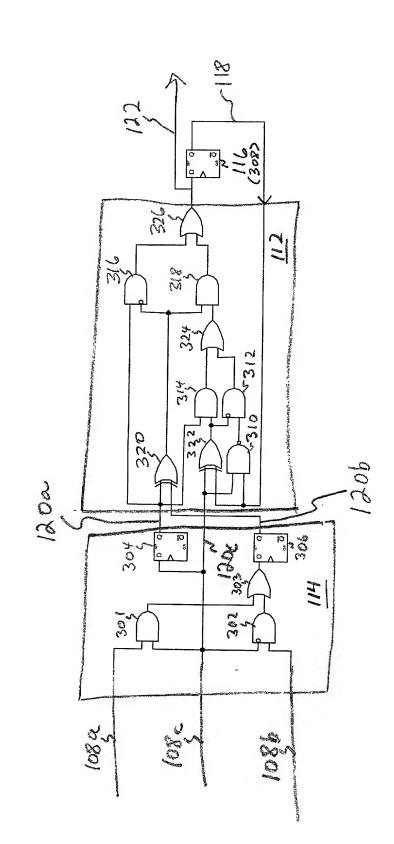
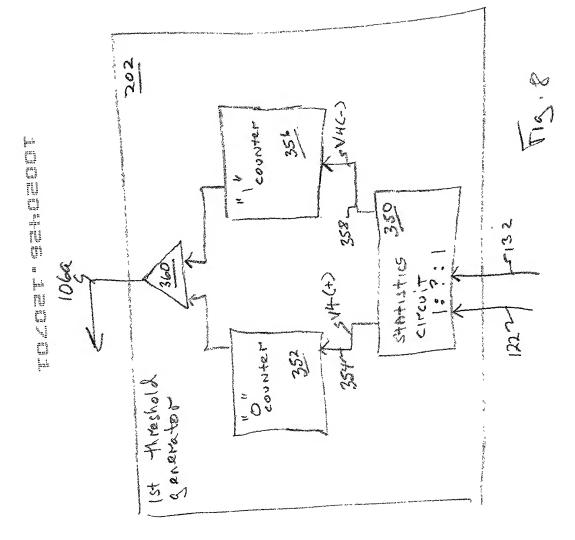


Fig. Ta



FIRST BIT Estimate		2nd bit	3rd bit	1st bit Value
line 120a	120b	Value	Value	
0 0 0	0 0 0	0 0 1 1	0 1 0 1	0 0 0 0
0 0 0	1 1 1	0 0 1 1	0 1 0 1	1 0 0 0
1 1 1	0 0 0	0 0 1 1	0 1 0 1	1 1 1 0
1 1 1	1 1 1	0 0 1 1	0 1 0 1	1 1 1 1

Fig. 76



Only One Cor	rection per 3 l E	oit sequence rror in the ce			
Corrected Graphic Sequence			Counter	Action on Feedback	
OK-ER-OK		0 cntr	1 cntr	-	+
0 0 0	. :	Cond 1 0 inc		V1 toggle	
0 0 1		Cond 2 O inc		V2 toggle	
0 1 0			Cond 1 1 inc		V1 Toggle
0 1 1			Cond 2 1 inc		V2 Toggle
1 0 0		Cond 3 O inc		V3 Toggle	
1 0 1		Cond 4 0 inc		V4 Toggle	
1 1 0			Cond 3 1 inc		V3 Toggle
111	:		Cond 4 1 inc		V4 Toggle

Fig. 9

tig. 10a START establishing 1st, threshold CVI) establishing 2nd threshold (VO) |5 establishing 3rd Threshold (VORT) NRZ data receiving SURPLYING lit bit for compavison comparing 1st bit estimate to 2nd bit value comparing 1st bit estimate to 3rd Cafe bit valve FEcdecoding 1st bit values Using FEC correction to adjust throshold tracking "O" errors when 2nd + 3rd bits are both Tracking "1" errors when 2nd 3rd bits are both adjusting VI for 4126 to Fig 106

L from Fig 10a Tracking "o" corrections when 2nd + 3rd bits are both "o" tracking "1" corrections when 2nd + 3rd bits are both "o 412 adjusting 4129 Tracking "o corrections when only one of the 2nd and 3rd bits is a tracking "I corrections when only one of the half that then that I from that H odds than forth arm green 2nd and 3rd bits is a "1" adjusting Vopt for4122 4125 tracking corrections when let bit value is "1" adjusting Nopt 5412K

Fis. 105

400 Fig. 11 24415+ 1st threshold establishing 2nd 3rd threshold (NRZ Jupplying 1st bit estimate for com **k**nk prop of and note of the decimal thing is a small thing if the decimal thing is a factor of the thing the t 503 comparing 1st bit estimate to bit value 406 aring 1st bitestimate to bit value 408 A Mark and Bar Hi let but walve 414 tracking NRZ inputs when 2bit = 3bit adverse c adjusting

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START 500
502
receiving NRZ training Lata
9.1.7
determining 1st bit values for
Corrections determined but values
with training data
TUSING COPPERATIONS TO Adjust
Thresholds white and was a superior of the sup
Secretary and the second secretary and the second s
to step to in a f
Fig. 10a or Fig. 11
-™e

F15. 12